

WHAT IS CLAIMED IS:

1. A magnetic head formed with a pair of magnetic core
halves fitted to abut on each other having a nonmagnetic
5 gap therebetween and having a slide contact plane for
slide contact with a magnetic recording medium on which
an end face of the nonmagnetic gap and the magnetic core
halves, wherein:

a nonmagnetic portion formed by filling a glass
10 material is provided at an end portion of the slide
contact plane outer than the end face of the magnetic
core halves on the slide contact plane.

2. The magnetic head according to Claim 1, wherein the
15 nonmagnetic portion extends to an edge of the slide
contact plane.

3. The magnetic head according to Claim 1, wherein a
magnetic material homogeneous with the magnetic core
20 halves at a further end portion outer than the
nonmagnetic portion on the slide contact plane.

4. The magnetic head according to any one of Claim 1,
Claim 2 and Claim 3, further comprising a coil winding
25 portion on which a coil wire is wound in a direction
substantially parallel to the slide contact plane,
wherein the nonmagnetic portion has a depth from the
slide contact plane in a direction substantially
orthogonal to the slide contact plane extends to the coil
30 winding portion.

5. The magnetic head according to any one of Claims 1 to 4, wherein the nonmagnetic portion has a slope non-parallel to a gap abutting plane in the pair of the magnetic core halves.

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6. The magnetic head according to any one of Claims 1 to 5, wherein the glass material filled in the nonmagnetic portion has a composition same as a glass material used for bonding the pair of magnetic core halves and for a track width regulating groove for regulating a track width of the nonmagnetic gap.

7. A manufacturing method of a magnetic head formed with a pair of magnetic core halves fitted to abut on each other having a nonmagnetic gap therebetween and having a slide contact plane for slide contact with a magnetic recording medium on which an end face of the nonmagnetic gap and the magnetic core halves, comprising the steps of:

20 forming a groove at an end portion of the slide contact plane outer than the end face of the magnetic core halves on the slide contact plane; and

forming a nonmagnetic portion by filling a glass material into the groove.

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8. The manufacturing method of a magnetic head according to Claim 8, wherein a surface roughness of a side plane of the groove is 50nm or less.